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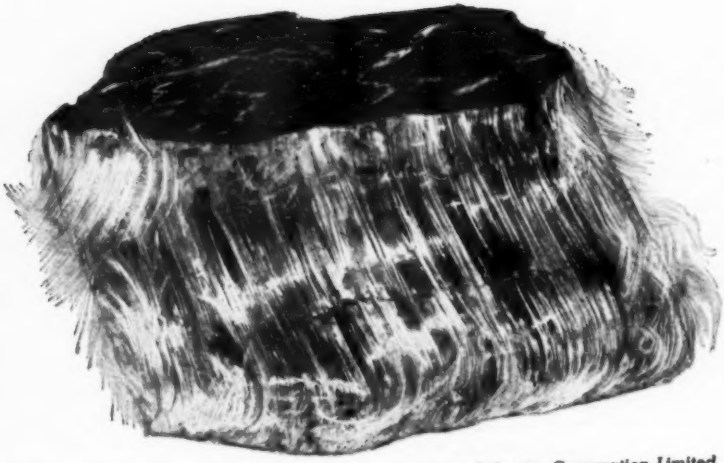
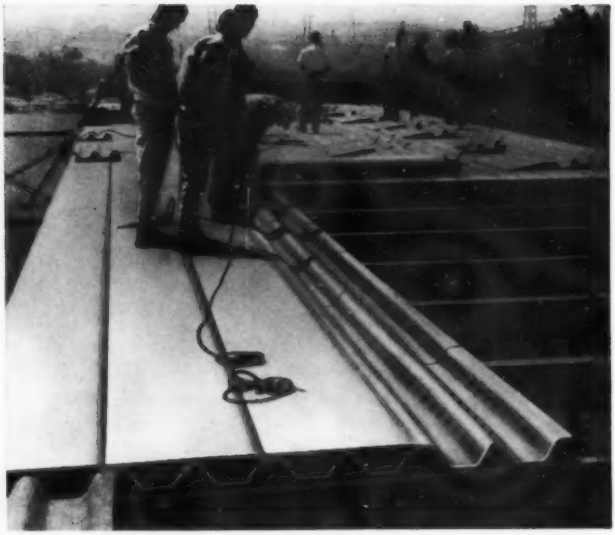


Canadian Crude

Courtesy Asbestos Corporation Limited

OCTOBER 1961



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THE MUNNIK-MYBURGH ASBESTOS MINE

Some Unusual Features

By: W. E. Sinclair, M.I.M.M.

The closing down of a chrysotile producer after a working life of nearly fifty years would, ordinarily, occasion little attention except to a few directly associated in the undertaking and possibly to those acquainted with some aspects of the proposition that are different from others.

The closing of the Munnik-Myburgh Mine, in the Eastern Transvaal, happens to be just such an exceptional case in which the geological structure of the ore-body, the mining procedure and milling technique were quite unlike any other.

To mention briefly two of the outstanding features, one might refer first to the weak and broken formation in which the "lode" occurred. The exceptional precipitation and heavy mists in the area, plus the presence of talcose seams in the ore are but two of the conditions that caused general weakness in the rock structure. As a result, serious ground movement was responsible for extremely difficult mining procedure. The second unusual feature that presents an interesting slant on extraction problems was to be found in the milling process. This consisted of a mill of rather unique design. The plant was one of the few that have produced five mill grades besides four long fibre (crude) grades of highest quality fibre mainly by screening without the assistance of pneumatic plant such as, cyclone collectors, fans and grading machines.

Details of these and other unusual features and practices are outlined as follows:

THE MINE

The Munnik-Myburgh Mine, situated in the "mist belt" of the Drakensberg escarpment, was first opened up in 1915, but the earliest output was only officially recorded in 1925. The working life of the mine, until its recent closure, was not without its share of viscissitudes and dormant periods due either to recessions in the industry or economic setbacks caused by mining difficulties.

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GEOLOGY

These asbestos occurrences are associated with the serpentine belt in the rocks of the Jamestown Series which divide the normal granite body from the abnormal granites in this area.

The most outstanding fibre deposits were found in the prominent westerly outcrops of the serpentine formation in which, besides the Munnik Mine, was once located the New Amianthus Mine[1] (Turner, Newall Limited).

The serpentine belt, averaging between one and two miles wide consists of other basic rocks, including soft talcose and basic schists and, at its western end, the formation is made up of two distinctive bands of serpentine rocks. These bands average about 150 feet thick and consist of the following:

(a) A hard dark blue-black rock in which no trace of fibre has been found.

(b) A comparative soft dull green rock broken by numerous cross-joints and talcose slips in which the asbestos veins occur in a "lode-like" channel about 3 feet to 4 feet thick. This channel is adjacent to the hard dark serpentine contact which forms the footwall of the lode.

The main asbestos channel, known locally as the Munnik Line, consisted of parallel veins of cross-fibre chrysotile that dipped to the North at varying inclinations ranging from 35 to 60 degrees. The tabular deposition of this ore-body is not unlike the sedimentary ore deposits that occur in limestones in the Carolina district of the Transvaal and in the Arizona (U.S.A.) occurrences, but is unlike the usual serpentine massive ore-bodies. This form of deposit, in which the parallel veins are found anastomosing in a well defined mineralized channel is quite unlike the mass stockwork types, although of like origin.

Valuation of the fibre content of the ore taken at different periods indicated a total width of fibre, in six to twelve veins, of from two to three inches, in a stoping channel width of about forty inches. This at best amounted to a mean face value of 6.2%, a high value which, together with

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the quality of the fibre, helped to make the mine payable. The asbestos generally occurred in its crude state as a translucent fibre with a clear olive green tint which, when broke up and teased or fiberized was transformed into a pure white silky product having a high tensile strength and exceptional natural qualities.

MINING

The 6,000 foot strike of the outcrop of the Munnik lode, exposed, along the top of a range of hills, some 800 to 1,000 feet high, naturally prompted initial workings in shallow open-cut trenches, followed down eventually by means of adit levels at 110 foot intervals giving an average stoping "back" of about 130 feet.

At a later stage in mining operations, having regard to the weak and broken nature of the formation, in which the lode occurred, it was a natural suggestion, that all primary development should have been in the hard serpentine, in the footwall of the lode formation. This idea was actually tried at one time, but the work was slow and costly and too late to eliminate the many handicapping features to economical working. These conditions, consisting mainly of the loss of main drives and the flow of water from the hanging wall through the stopes, and the loss in drive and stope safety pillars, not only caused many difficulties in development and production operations, but was responsible for high working costs.

Exploitation of the lode consisted generally of breast stoping, opened up from winze and raise connections between levels at 300 foot intervals. Stope faces were usually carried at an angle that facilitated the natural gravitation of the broken ore down to the boxholes.

Earlier control of the hanging wall in the upper levels consisted of light props and "reef" pillars. In the lower levels, however, hanging wall conditions became weaker and gradually an increasing number of safety pillars were necessary (estimated at nearly 20% of the total ore reserves). Despite this step it was found increasingly difficult to achieve adequate support, and, eventually minor falls in the stopes and the old levels led to extended caving over large areas.

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The saving of the mine in 1937 was effected by the introduction of a system of contemporaneous waste filling in the stopes[2] and more intensive sorting underground. The results of this change to selective mining methods, even at a slightly higher cost, not only benefited mining conditions, but reduced handling and milling costs. A brief summary of the all round benefits gained by the new system follows:

(a) Cleaner and higher grade of ore to the mill.

(b) Smaller tonnage handled.

(c) Reduction of attrition of the ore with consequently better recovery of long fibre.

(d) More effective hanging wall support, better control and safer working conditions.

(e) Improved ventilation.

TREATMENT

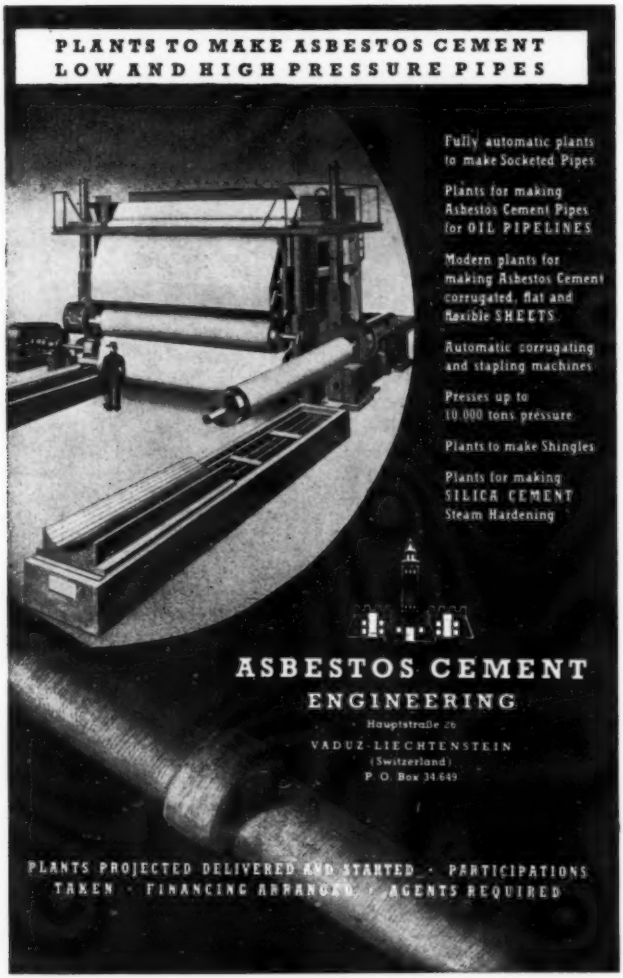
It is common knowledge that the process of extraction of fibre from its parent rock is based on common principles even though processing methods vary according to the class and quality of the asbestos and the nature of the rock in which it occurs. However, in most chrysotile mills the basic principle consists of the separation and extraction of the fibre by means of pneumatic concentration. Only occasionally is screening alone utilized as a means of separation of the fibre and the gangue material.

Procedure at the Munnik Mill followed the latter practice in an ingeniously designed plant that boasted a rather unique flowsheet[3] which, although essentially different from most chrysotile mills, successfully produced five mill grades of exceptional quality.

Actual fibre recovery was carried out in two sections and the plant accordingly consisted of two parts, as follows:

(a) Where long fibre was produced from crude ore by hand-cobbing and screening.

(b) Where short fibre was recovered from the run-of-mine ore by milling methods.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HAND-COBBING

The main steps in the recovery of the hand-cobbed grades consisted first, in sorting and grading the crude into fibre lengths varying from ¾ to ¼ inch, then, the different lots were knapped to remove waste from the lumps of ore. This work enabled the fibre to be readily cobbed and fiberized by teasing, and finally cleaned and separated on shaker screens. After the dust and impurities were removed the undersized material was passed on to the mill feed.

MILLING

The mill flowsheet shows that the plant consisted essentially of two distinct parts, in the first of which drying, sorting and crushing took place, and in the second, fine crushing and screening constituted the main operations.

After classification through revolving trommels, the oversize ore went to jaw crushers from which the product joined the undersize from screens and then on to dryers. Ore from the dried ore bin, after passing through crushing rolls, was passed over a ⅜ inch screen (No. 1), the oversize from which was handpicked on a conveyor belt to remove long fibre, waste and wood chips. Oversize is subjected to further reduction in crushing rolls, the product from which was passed over No. 2 Shaking screen.

From No. 2 to No. 7 shaking screens a conveyor belt moved all the minus ⅛ fines from each table to No. 2 Disintegrator in which fiberization was effected and the fibre then returned to the circuit for the removal of dust and for grading.

The oversize ore from No. 2 screen, which carried most of the longer mill grades was passed through No. 3 crusher rolls and after screening resulted in M 1 and M 2 grades.

The fibre in the undersized material from No. 3 screen was diverted by an inclined trap to No. 6 screen to give M 3 grade fibre.

The section of the mill from No. 7 to No. 12 screens treated the very short fines by means of trommelling and an unusual blower device, to remove dust and grits, to recover grades M 4 and M 5.

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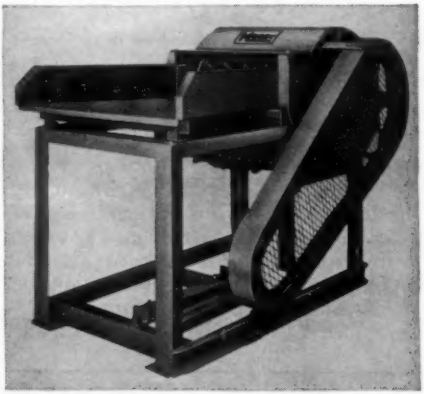

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An auxiliary mill on the mine followed similar procedure and the combined average percentage recovery of the various grades is indicated in the following Table:

Grade	Class	M/C Test				Percentage Recovery
M 1	Textile	2.	11.	2.	1.	5.23
M 2	Spinning	0.	8½.	6.	1½.	1.68
M 3	Spinning	0.	3.	10.	3.	44.31
M 4	Shingle	0.	0.	8½.	7½.	43.22
M 5	Paper	0.	0.	4½.	11½.	4.83

1. This Mine closed down early in 1938 having at that stage depleted its ore-reserves.

2. "Notes on the Introduction of Contemporaneous waste filling in the stopes of the Munnik-Myburgh Mine"—from a Paper read at the Association of Mine Managers of South Africa, by the Author.

3. Copy of this flowsheet was produced in "ASBESTOS" in an article "Milling Asbestos Ore" by the Author. "ASBESTOS", June 1952, page 6.

NATIONAL ASSOCIATION OF HOME BUILDERS will hold its 18th annual Convention-Exposition at McCormick Place in Chicago, Illinois, December 3-7, 1961. The home-builders convention is one of the biggest trade shows in the world. More than 550 manufacturers will have exhibit space, and the record attendance of more than 36,000 people at the last convention will be exceeded.

Hotel reservations are handled by the NAHB Convention Office, 140 South Dearborn Street, Chicago 3, Illinois.

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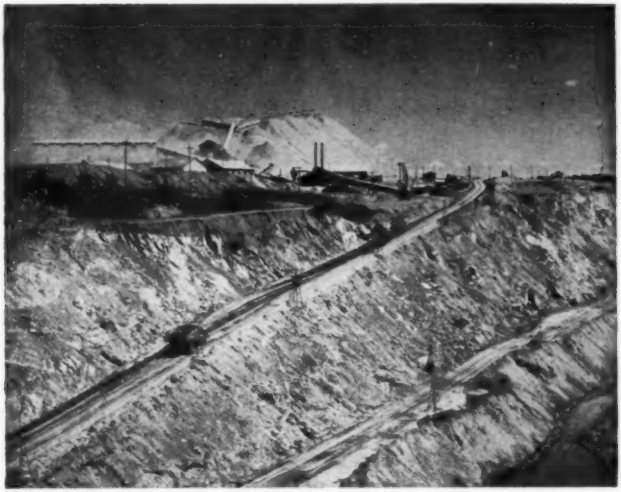

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According to Mr. E. T. Donaldson, President of Murray Mining Corporation Limited, Toronto, Canada, the company has added 3,000,000 tons of indicated ore to its Ungava asbestos deposit and further drilling presently underway is expected to add to this picture. Visual grade estimates indicate that this additional tonnage will compare well with the previous drilling average; the grade of which was recently confirmed by bulk sampling using 12" diameter core.

The core from this year's drilling is, as in previous years, being tested by the Quebec Government's Pilot Plant in Quebec City and results from the first of the current tests are expected shortly.

In addition to the present drilling program, a complete final engineering economic survey for production purposes is underway. This work is to gather all site information necessary to prepare the final estimates on capital and operating costs and to allow the Company to begin design of mine, mill townsite, power plant, access road, dock, and harbor facilities in preparation for production.

The Company has now made its airstrip suitable for C-46 aircraft and is presently extending it to a length satisfactory for larger DC-4 aircraft. This improved plane access, coupled with the improved communication facilities, has already aided greatly in improving operating efficiency in the area.

Recent visitors to the property have included the Honorable Rene Levesque, Minister of Natural Resources for Quebec, Dr. Paul Auger, Deputy Minister and Dr. B. Denis, Assistant Deputy Minister, which is indicative of the Quebec Government's interest in encouraging the development of mining enterprises in this northern part of the Province.

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ASTM CHANGES NAME

The name of the American Society for Testing Materials was officially changed to the "American Society for Testing AND Materials" with the signing of a court decree on September 18th, 1961, amending the Society's Charter originally granted in 1902 by the Commonwealth of Pennsylvania.

In announcing this change, ASTM President Miles N. Clair said, "The inclusion of the word 'and' in the Society's name places added emphasis on the Society's research work in seeking knowledge of the nature of materials.

"It is a further re-emphasis of one of the basic purposes for which ASTM was founded in 1898. Since then, the work of the Society has been devoted to the fulfillment of its basic objectives, unchanged from the orginal Charter which states: 'The corporation is formed for the promotion of knowledge of the materials of engineering, and the standardization of specifications and the methods of testing'. And, to give greater stimulus to the work of the Society in the field of Materials Research, a Division of Materials Sciences was established two years ago."

The change in name was the result of study and discussion with members throughout the country extending over several years. It was also given careful consideration by the ASTM Board of Directors prior to its approval and adoption by the membership at the Annual Meeting in June of 1961.

"Although a number of other suggestions for a new name were given serious consideration", continued Mr. Clair, "there was strong agreement among the membership that there should be a minimum disturbance of the name. In addition there was unanimous agreement that the initials "ASTM" and the Society's symobl incorporating these initials, recognized throughout the world as the authority for standards for materials, should be unchanged."

ASTM now has almost 11,000 members including individuals, companies, government agencies, and educational institutions. There are in addition about 7,000 prominent engineers and scientists who serve as representatives of company members on the Society's 87 technical committees.

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HANDBOOK OF ASBESTOS TEXTILES
Second Edition

The second edition of the "Handbook of Asbestos Textiles" has been published by the Asbestos Textile Institute, a non-profit organization of manufacturers of asbestos textile products and producers of asbestos fibers. One of the Institute's primary aims is the development, through a continuous program of research and practical testing, of improved quality standards in the various products made by its members. It also serves as a clearing house for the dissemination of useful information relating to asbestos textiles and their applications.

The Handbook contains chapters entitled: The Mineral Asbestos; The Mining, Milling and Grading of Asbestos Fibers; Processing Asbestos Textiles; and, Asbestos Textile Products—Carded Fiber, Lap, Roving, Yarn, Cord, Thread, Cloth, Tape, Tubing, Wick, Rope and Non-Woven Felts. It also has a section giving the ASTM Specifications and methods of test used for asbestos textiles, as well as a handy glossary of terms. It is illustrated with many photographs and drawings.

This Handbook contains data which the Institute hopes will prove helpful to users and others who may benefit from knowing about asbestos textiles and their adaptability to numerous industrial requirements.

Copies are available from any of the member companies of the Institute or by writing to Dr. Myril C. Shaw, Secretary, Asbestos Textile Institute, Schoolhouse Lane, Philadelphia 44, Pensylvania.

UNION ASBESTOS & RUBBER COMPANY, Chicago, Illinois, has acquired all of the stock of *Arrow Products, Inc.*, manufacturers of belt, wheel and roller type conveyors, as well as the plant occupied by Arrow Products at Grand Haven, Michigan.

Edwin E. Hokin, President of UNARCO stated that Arrow Products will complement Union Asbestos' line of Sturdi-Bilt Storage Racks, and make an important addition to the company's Material Handling Division.

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These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

The INSULATION DISTRIBUTOR - CONTRACTORS NATIONAL ASSOCIATION, INC. will hold its "Sixth Annual Convention and Industry-Wide Meeting at the Camelback Inn, Phoenix, Arizona, November 13th to 16th, 1961. Contractors from the 50 states will attend. The main general business conference will be held on Wednesday, November 15th, and Thursday, November 16th, with morning and afternoon sessions each day.

Morning sessions will include the reports of officers and addresses of the featured speakers who will be Dr. George Cline Smith, Chief Economist of the F. W. Dodge Corporation, General President Carl W. Sickles of the Asbestos Workers, and Past Chief Justice M. T. Phelps of the Arizona Supreme Court. IDCNA President, E. E. Saberhagen, will preside.

Afternoon sessions will be devoted to open forum discussions from the floor on all of the important problems of the industry under the chairmanship of various IDCNA Officers and Directors.

In addition, officers of all eight of the Regional Associations of the industry will attend. One important subject to be discussed will be the affiliation of the Regionals with the National Association.

This convention is expected to be the best attended and most important one in the history of IDCNA.

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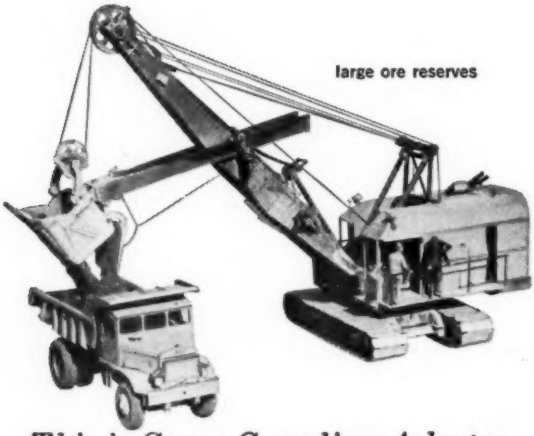
CANADA'S ASBESTOS MINING INDUSTRY—1960

Canadian producers of asbestos shipped 1,118,456 short tons of crude and milled fibres valued at $121,400,015 during 1960. In the preceding year the shipments were 1,050,429 tons valued at $107,433,344. Excluded from the aforementioned figures were the value of containers which amounted to $3,791,778 in 1960 and $3,534,945 in 1959. The quantity of asbestos increased 6.5% and the total value was up 13.0%.

The asbestos mining industry employed 6,688 persons at the mines and mills. Salaries and wages amounted to $33,057,847. Fuel and electricity cost $6,133,788; included in this figure was 397,672,373 kwh. of purchased electricity valued at $3,096,279. Process supplies and containers cost $14,887,770.

Referring to the article on page 8 of the August 1961 issue of "ASBESTOS", entitled "International Organization For Standardization—Technical Committee 77", "ASBESTOS" would like to make reference to the United States' participation in the ISO TC/77 Committee work. ASTM Committee C-17 has a sub-committee which works solely on ISO TC/77 recommendations. The United States has had one or more delegates at the last three meetings of the ISO Committee TC/77: R. F. Orth, Vice President of Johns-Manville Corporation, was the official U. S. delegate in 1959, 1960 and 1961; and in 1961, A. E. Binger, Vice President of The Philip Carey Manufacturing Company, also attended as a member of the U. S. delegation.



large ore reserves

This is Carey-Canadian Asbestos

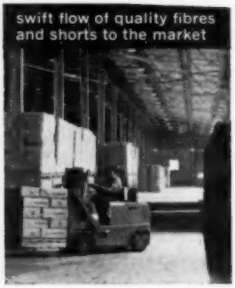
from mine, to mill, to market

Here is your dependable source for the highest quality asbestos, consistently uniform from shipment to shipment.

Complete information on Carey-Canadian Asbestos can be obtained by writing:

Carey-Canadian Mines Ltd., P. O. Box 15095, Cincinnati, Ohio or Carey-Canadian Mines Ltd., East Broughton Station, P. Q., Canada

modern milling methods . . exacting quality control



swift flow of quality fibres and shorts to the market

The next NATIONAL PLANT ENGINEERING & MAINTENANCE SHOW will occupy the largest exhibit area in its history, according to Clapp & Poliak, Inc., producers of the exposition. Now in its thirteenth year, the show will return to the East Coast in 1962, when it will take place at Convention Hall, Philadelphia, Pennsylvania, from January 22nd through the 25th. More than 400 companies are expected to exhibit.

Concurrently with the show, the 13th annual Plant Engineering & Maintenance Conference also will be held at Convention Hall. Like the show, the conference will be expanded to meet current needs.

Show, conference, hotel information and rapid registration cards may be obtained from Clapp & Poliak, Inc., 341 Madison Avenue, New York 17, New York.

Special buses will operate from major downtown hotels to Convention Hall during the show and conference.

ROBERT J. PAINTER, at the President's Luncheon during the 64th Annual Meeting of the *American Society for Testing Materials*, received the announcement by President A. A. Bates, that the Board of Directors had conferred on him the title of Executive Secretary Emeritus, capping 30 years of devoted service to ASTM.

Tangible evidence of the unique honor was an embellished, framed certificate presented to Mr. Painter by President Bates. Evidence of the heartfelt approval of the hundreds present was the spontaneous, standing ovation that followed the announcement.

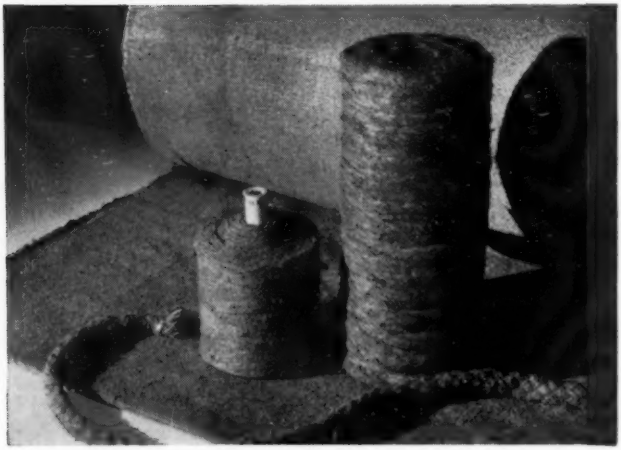
HEALTH PROGRESS IN AN ASBESTOS TEXTILE WORKS, by Jerry L. Mitchell, Manager of Asbestos Textile Works, Thermoid Division, H. K. Porter Company, Inc., Charlotte, North Carolina, is the title of a very interesting article on dust control. This article contains descriptive tables and illustrations.

"ASBESTOS" will be glad to lend its copy to interested readers.

NORAMITE

. . . Crocidolite and Amosite Asbestos Products for Reinforcement of Plastics

Noramite identifies a group of new products which greatly extend the range of properties normally available in reinforcing fibers. Noramite products, all based on Amosite or Crocidolite asbestos, include prepared fibers, rovings, ropes and fabrics. Greater chemical resistance, higher moduli, and greater heat resistance are among the principal advantages of Noramite products.



NAAC

In the United States
NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building • Chicago 4, Illinois

In Canada
CAPE ASBESTOS (CANADA) LIMITED
200 Bloor Street East • Toronto, Ontario

CAPE

Subsidiaries of The Cape Asbestos Company, Ltd., London

NATIONAL FIRE PROTECTION ASSOCIATION has just published a new and revised 7-volume edition of the "National Fire Codes".

These 1961-62 Codes incorporate 48 fire protection standards adopted by the Association this year plus 138 other current NFPA standards.

Material in this authoritative reference work is divided into seven major categories covering flammable liquids and gases; combustible solids, dusts, chemicals and explosives; building construction and equipment; fixed extinguishing equipment; electrical; transportation; and, mobile fire equipment, organization and management.

The seven new volumes, with a total of 5846 pages, ($7 per volume, $40 for the set of 7 volumes) are available from the Publications Department, National Fire Protection Association, 60 Batterymarch Street, Boston 10, Massachusetts.

High grade asbestos fibers produced to your needs

Shingle and siding stock, floor tiles, brake linings, insulating coatings, pipe or plastics – name your product–Flintkote's research laboratories are completely equipped to determine and recommend the grade and characteristics of asbestos fiber your product needs. Flintkote Mines extensive facilities mill fibers to meet every requirement!

If asbestos fiber is a factor in your manufacturing process, call or write Flintkote for a quick answer to any problem.

Flintkote Mines, Ltd.

(Subsidiary of the Flintkote Company) Thetford Mines, P.Q., Canada · New York Office: 30 Rockefeller Plaza, New York 20, N.Y.

FLINTKOTE®

· Toronto Office: 30th Street, Longbranch, Toronto, Ont., Canada · London Office: Adam House, 1 Fitzroy Square, London W-1, England

BUILDING

Renewed strength in highways and utility construction and continued gains in apartment building sent construction contracts to a record for the month of August 1961, F. W. Dodge Corporation reported. Total August contracts amounted to $3,542,567,000, up 8% from the same month last year.

The seasonally-adjusted Dodge Index of Construction Contracts rose to 293 in August (1947-1949=100). Dodge economists noted that this was the highest Index reading since last December and indicates a vigorous pace of actual construction activity in the months ahead.

According to the Dodge report, residential contracts in August totalled $1,588,939,000, up 11% from last year. Dollar valuation of contracts for apartment buildings more than doubled the year-earlier figure, while single-family housing ran just slightly ahead. The number of new dwelling units represented by the August residential contracts amounted to 116,020, up 10% from August 1960.

Contracts for heavy engineering projects were valued at $866,367,000 in August, a full 26% above the same month last year. Dodge economists pointed out the sharp gains recorded in both streets and highways and electric light and power systems, which, in dollar volume, are the largest heavy engineering construction types.

The sharp increase in contract letting last month was accomplished in spite of general weakness in the non-residential building sector, contracts for which slipped 8% below August 1960 to $1,087,261,000. Every major non-residential building category with the exception of hospital building showed a decline from year-earlier levels.

Cumulative totals of construction contracts for the first eight months of 1961, with percentage changes from the corresponding period last year, are: non-residential building $8,205,071,000, up 1%; residential building $10,-844,071,000, up 5%; and, heavy engineering $6,198,485,000, up 4%—total construction $25,247,627,000, up 3%.

THERMASIL Calcium Silicate frequently outlives equipment and piping. Moisture resistant and durable, shock resistant and structurally stable, THERMASIL makes your first cost your last. Teamed with sheet aluminum for protection against temperature extremes, sandstorms and tornadoes, THERMASIL is used throughout this Texas refinery to *keep heat balances constant* For more information on B-E-H THERMASIL and the complete B-E-H line of industrial insulations for temperatures from sub-zero to 1900 F see your distributor or write for new Catalog.

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BALDWIN-EHRET-HILL

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500 Breunig Avenue Trenton 2, New Jersey

MARKET CONDITIONS

GENERAL BUSINESS.

The upswing in general business continues unbroken and most indices of our economic health are still registering substantial gains. Serious strikes in the automotive industry have apparently been successfully avoided and this should lead to a sharp upturn in purchases of steel by the automakers and their suppliers. It is possibly with this in mind, plus the fact that most steel companies are bound to increase wages very shortly under the terms of their union contracts, that President Kennedy has addressed himself to leaders of the industry in an effort to prevent any general increase in steel prices. The responses have been about as expected. While the industry would like to hold the price line it probably cannot do so indefinitely in the face of rising costs and falling profits. A rise of any consequence of course can set off a new round of price increases in other industries.

International affairs continue to be a disturbing element. It is most difficult to predict future economic trends when any one of many controversial issues could suddenly come to a head, upsetting the best laid plans of the wisest leaders in finance and industry. We can only hope that no major unfavorable development will occur that would completely upset the economic recovery now under way.

ASBESTOS—RAW MATERIAL.

August 1961 asbestos fibre shipments for the Industry at 112,290 tons surpassed the same period last year by 15,110 tons or approximately 15%.

Year to date shipments are running 23,100 tons or 3.5% ahead of the first eight months of 1960.

It is felt that the estimate of a 5% increase in shipments over 1960 will be on the conservative side.

Although asbestos fibre shipments to date are somewhat higher than last year, all grades continue to be in supply.

asbestos cement department
TORINO - VIA S. TERESA 10 - ☎ 55.35.76 - 52.41.33

NOTICE

The R.C.M. Company (Revisione Costruzione Macchine) - 10, Via Santa Teresa - Turin - Italy, wishes to inform that anybody interested is invited to visit a very modern Factory in Italy where an R.C.M. automatic installation is in working activity for the manufacture and finishing of Asbestos-Cement pressure and non-pressure Pipes, also of small diametre.

Examination of this installation will clearly show the results reached by the R.C.M. Company in the construction of machinery for the Asbestos-Cement Industry.

This machinery permits the use of lower priced asbestos mixtures while producing the same quality product in accordance with the standards now in force.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. The market situation at the present time is still improving over the last few months and is expected to continue to improve during the balance of the year.

Asbestos Brake Lining. The present market situation is improving slowly although Replacement and O.E.M. sales figures are slightly behind last year. However, a significant improvement in this condition over 1960 is expected for the rest of the year.

Asbestos Millboard. The volume of orders has increased steadily since the beginning of August and the remainder of the year should equal 1960. The demand for *Asbestos Saturated Paper* has been good but an expected seasonal fall-off is predicted for the last quarter of this year.

Asbestos-Cement Products. Products used in commercial construction are moving very well. Those products used in the residential market are fair, but this situation is expected to improve with the general pickup in economic conditions.

High Pressure Insulation. Although price competition is still severe, business continues to improve seasonally. This situation is expected to remain for the rest of this year.

Asbestos Siding. The market situation for this product is much the same as that reported last month and no change in this condition is anticipated during the balance of the year.

Asbestos Pipes. The present market for these products continues to be very active and prices are still becoming more firm. This present trend is expected to continue beyond this year.

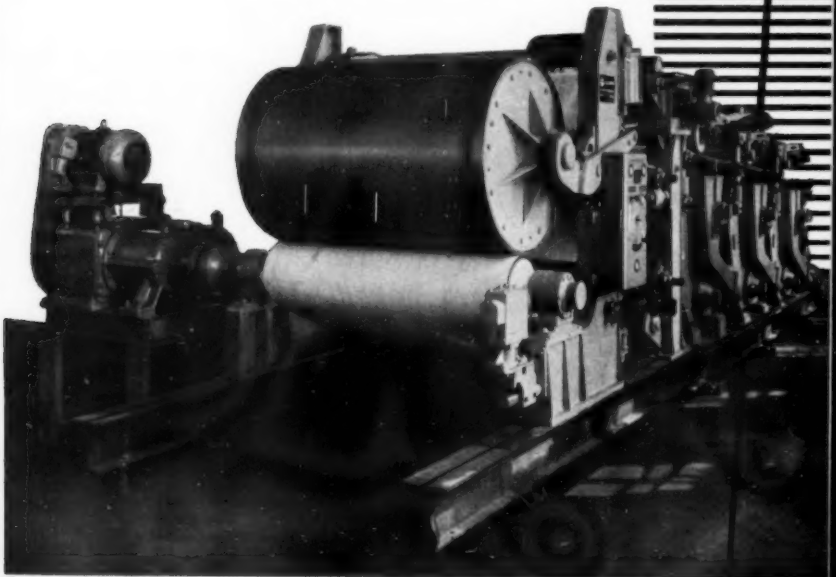
The above comments have been made by various informed executives in the Industry. All comments are welcome.

All machinery for the equipment of plants producing asbestos-cement pipes and sheets

covering the entire production process from the stock preparation to the testing of the finished product.

All machinery for wet or dry preparation of asbestos-cement / Asbestos silos.
Sheet producing machines with one to three cylinder moulds, automatic or semi-automatic combined production lines for flat and corrugated sheets.
Piling equipment combined with cleaning and lubricating machinery for flat and corrugated steel sheets, suitable also for automatic operation / punching and trimming machines / hydraulic presses.
Pipe winding machines for the production of pressure pipes of up to 5 metres (16 ft. 5 in.) length and 1000 millimetres (3 ft. 3 in.) dia / lathes for pipes and joints / cutt-off grinders / testing presses for pipes and joints / calenders for the forming of plain and joint-fitted pipes / mandrel pull off machines / autoclaves for hardening of asbestos-cement sheets and pipes as well as many other units, pumps and accessories.

Leaflets describing individual machines will be readily sent on request.

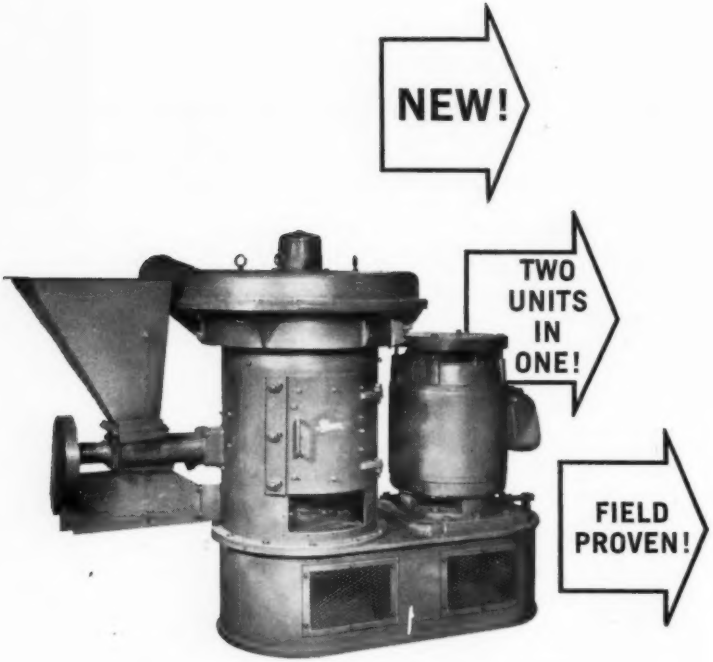


J.M.VOITH A.G.

St. Poelten – Austria

P. O. B. 168 / Tel. 2501 / Teletype 01510

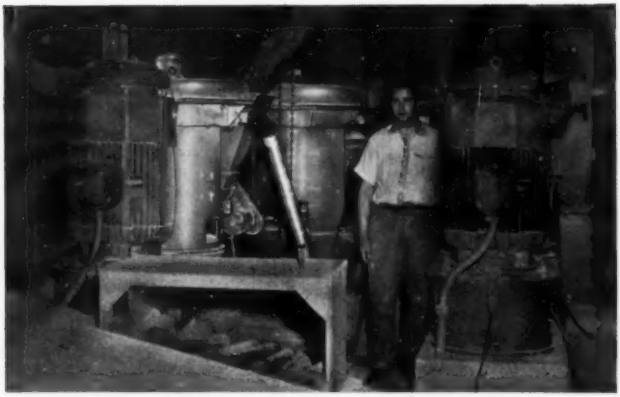
SM 746 e



Bauer

Hurricane Pulverizer-Classifier

UPGRADES PRODUCTION, QUALITY AND PROFITS



RECOVERY RATE INCREASED FROM 10% TO 30% WITH BAUER HURRICANE PULVERIZER-CLASSIFIER

In addition to higher fiber recovery from rock, this asbestos mill obtains:

- Cleaner fiber in group 7 – plus 200 mesh grit eliminated
- Finer floats and improved bulk density
- Higher wet settling test, higher absorbency

The high capacity Hurricane offers superior grinding and separation . . . automatic controls . . . dependable, low maintenance performance. Aren't these the production benefits you want?

SEND FOR DATA

The Bauer Bros. Co.
1826 Sheridan Avenue
Springfield, Ohio

AFRICA (Rhodesia)

(Published by Rhodesian Mining and Engineering)

Tons 2,000 lbs.

Production for July 1961	14,155.82
Valued at	£787,180.00*
Production for July 1960	11,456.24
Valued at	£661,752.00*

*Corrected to the nearest £.

AUSTRALIA

(Published by Bureau of Mineral Resources)

Tons 2,000 lbs.

Production

	Quarter Ending Dec. 31, 1960	Year 1960
Chrysotile	241	1,139
Crocidolite	3,616	14,472
	3,857	15,611
Imports		
Chrysotile	7,855	28,832
Crocidolite	..	74
Amosite	2,455	10,308
Other	361	1,958
	10,671	41,172
Exports		
Chrysotile	5	25
Crocidolite	2,954	8,177
Other	15	97
	2,974	8,299

In 5 minutes...An Automatic Test of Fiber Openness

Press the starter button, and in 5 minutes the Blaine-Dyckerhoff air permeability tester will *automatically* determine the surface area of asbestos fiber. This apparatus as used at the J-M Research Center and by J-M Mill Quality Control at Asbestos, Quebec, is accurate within a 5% margin of error.

In a continuing effort to improve fiber quality and uniformity, and after thoroughly evaluating and testing, J-M recommends this equipment to the Asbestos Industry as an approved and improved method in Quality Control.

For full details, write Johns-Manville, Box 325, New York 16, N. Y. In Canada: P.O. Box 1500, Asbestos, Quebec. Cable: Johnmanvil.

JOHNS-MANVILLE JM

CANADA

(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for July 1961 (Quebec)	96,888
Other Provinces	5,602
	102,490

Total production for July 1960 was 92,529 tons.

Allis-Chalmers Manufacturing Company gyratory screens will be used in California's first large asbestos mill, scheduled to start operation early in 1962.

The new mill, near Coalinga, California, will be operated by the COALINGA ASBESTOS COMPANY, INC., a joint venture of Johns-Manville Products Corporation and the Kearn County Land Company.

The Allis-Chalmers screens will be used in the tail-end portion of the plant's circuit to separate fibers from gangue.

SURVEYER, NENNIGER & CHÊNEVERT

Complete Consulting Engineering Services for the Asbestos Industry

One of our Completed Projects: - Mill No. 5 for Johns-Manville at Asbestos, Que., Canada

One of our Current Projects:- Advocate Mines, Baie Verte, Newfoundland

1440 St. Catherine Street West, Montreal 25, Que., Canada

Ottawa - MONTREAL - Baie-Comeau.

ARIZONA ASBESTOS

Mined and Milled by

JAQUAYS MINING CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA

Producers of Soft, Low Iron, White Chrysotile
Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY

Imports Into U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	May 1961 Tons (2,240 lbs.)
From: Canada	44,063
Union of South Africa	1,645
Rhodesia (Nyasaland)	232
United Kingdom	152
Other Countries	28
	46,120
Valued at:	$4,850,059
By Grades:	
Crude, Chrysotile	22
Crude, Blue, Union of South Africa	669
Crude, Blue, Other Countries	6
Crude, Amosite, Union of South Africa	976
Crude, Amosite, Rhodesia (Nyasaland)	111
Textile Fiber, Chrysotile, Canada	1,877
Shingle Fiber, Chrysotile, Canada	5,867
Paper Fiber, Chrysotile, Canada	3,047
Other Fibers, Chrysotile, Canada	33,272
Other Fibers, Chrysotile, United Kingdom	152
Other Fibers, Chrysotile, Rhodesia (Ny)	121
	46,120

Manufactured Asbestos Goods:

	May 1961 Quantity (lbs.)	Value
Asbestos Yarn,		
United Kingdom	21,117	$ 16,975
Other Countries	6,727	6,028
Asbestos Packing	27,779	7,208
Asbestos Shingles (Impregnated)		
Belgium	396,857	60,560
Other Countries	12,275	1,833
A-C Pipe & Fittings (Not Impreg.)		
Mexico	831,845	74,893
Belgium	1,181,208	69,676
W. Germany	442,183	20,024

PUTTEN'S ASBESTOS

CORPORATION OF SOUTH AFRICA (PTY.) LTD.

ALL TYPES OF

SOUTH AFRICAN & RHODESIAN

RAW ASBESTOS FIBRES

CHRYSOTILE CROCIDOLITE AMOSITE MONTASITE

ENQUIRIES FROM END-USERS INVITED

HEAD OFFICE:

Putten's Asbestos Corporation of South Africa (Pty.) Ltd.
12th Floor, Rand Central Building,
165, Jeppe Street, JOHANNESBURG.
P.O. Box 7167. Telephone 22-8225.

ASSOCIATED COMPANIES:

Putten's Asbestos Corporation of Rhodesia (Pvt.) Ltd.,
4th Floor, Throgmorton House,
Cor. Jameson Avenue, Kingsway,
SALISBURY, S. Rhodesia.
P.O. Box 2246. Telephone 29379.

and

Putten's Asbestos Corporation (U.K.) Ltd.
3rd Floor, Gresham House,
27, Old Broad Street,
LONDON E. C. 2. England.
Telephone: London Wall 1244.

Italy	2,153,867	84,547
Israel	2,326,532	113,789
A-C Mfgs. Other (Not Impregnated)	141,826	6,795
Asbestos Manufactures — Others	..	3,162
	7,542,216	$465,490

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Materials
Tons 2,240 lbs.

	July 1961
From: Union of South Africa	1,583
Basutoland, Bechuanaland & Swaziland	1,450
Rhodesia & Nyasaland	4,707
Canada	6,290
Other Commonwealth Countries & Irish Republic	197
Foreign Countries	791
	15,018

Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000

RAND CENTRAL — 165 JEPPE STREET

JOHANNESBURG - SOUTH AFRICA

OFFICES ALSO IN: TOKYO (JAPAN) AND BULAWAYO (SO. RHODESIA)

GEBR. WEHRHAHN

MASCHINENFABRIKEN

P. O. Box 209

DELMENHORST / GERMANY

Manufacturers of the finest and most modern plants for the production of asbestos-cement products, such as

pressure pipes
socket pipes
flat and corrugated sheets

Projecting — Erecting — Handing over in ready-for-operation condition

Get full information! **Write now!**

Exports From U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	June 1961 Tons (2,240 lbs.)	Value
To: Canada	543	$ 109,843
Europe	214	34,957
United Kingdom	24	3,630
South America	5	1,500
Other Countries	18	8,602
	804	$ 158,532

Manufactured Asbestos Goods:

	June 1961 Quantity	Value
Asbestos Cement & Pipe Covering	Lbs. 350,937	$ 94,246
Asbestos Textiles & Yarn	Lbs. 45,177	55,140
Asbestos Packing	Lbs. 118,041	169,400
Asbestos Clutch Facing	No. 105,274	84,145
Asbestos Bk Lng (Mld & S.Mld)	Lin.Ft. 66,653	42,873
Asbestos Brake Lining, Other	Lbs. 310,467	247,234
Asbestos Construction Material	Lbs. 2,104,316	271,302
Asbestos Manufactures—Other	..	37,445
		$1,001,785

William A. Wildhack has been appointed an Associate Director of the NATIONAL BUREAU OF STANDARDS. He will be responsible for coordination of NBS measurement services to science, industry, other agencies of the Federal government, and the states. These services include consultation and research on special problems of measurement, and calibrations and tests performed on instruments, equipment, and materials, and the distribution of standard samples and reference materials.

Since 1960, Mr. Wildhack has been Special Assistant to the Director, exploring the needs of industry and other Government agencies for precision standards, calibration services and improved measurement techniques.

NEWARK HAIR FELT COMPANY
LOW TEMPERATURE INSULATION
1000 Maple Avenue
LANSDALE, PENNA

Your dependable, established, volume supplier of high-grade asbestos **for every application is Lake Asbestos of Quebec. LAQ is an independent source of uniform quality chrysotile asbestos fibre and its annual capacity of 100,000 tons is your assurance of continuous supplies. For additional information, call or write Lake Asbestos of Quebec, Ltd., 120 Broadway, New York 5, N. Y., or your nearest sales agent.**

NORTH AMERICAN SALES AGENTS:

California, Los Angeles
E. B. Taylor Company

California, San Francisco
E. M. Walls Company

Colorado, Denver
Braun-Knecht-Heimann Co.

Massachusetts, Ballardvale
D. H. Litter & Co., Inc.

Michigan, Detroit
Baker & Collinson

Missouri, St. Louis
Harry A. Baumstark & Company

New York, Buffalo
Buffalo Solvents & Chemicals Corp.

New York, New York
D. H. Litter & Co., Inc.

Ohio, Cleveland
A. C. Mueller Co., Inc.

Oregon, Portland
Van Waters & Rogers, Inc.

Pennsylvania, Conshohocken
Van Horn, Metz & Co., Inc.

Texas, Houston
Federated Metals Division

Utah, Salt Lake City
Braun-Knecht-Heimann Co.

Washington, Seattle
Van Waters & Rogers, Inc.

In Canada: Toronto & Montreal
Federated Metals Canada, Ltd.

LAKE ASBESTOS OF QUEBEC, LTD.
a subsidiary of American Smelting and Refining Company

ASARCO

Exports From Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	April 1961 Tons (2,000 lbs.)	Value
Crude		
United States	..	$ ..
United Kingdom	..	..
South America	..	..
Central America & Mexico	..	..
European Countries	3	2,919
Other Countries	9	9,431
	12	$ 12,350
Milled		
United States	11,432	$2,360,446
United Kingdom	2,681	486,872
South America	3,432	613,221
Central America & Mexico	1,528	273,367
European Countries	7,940	1,561,350
Other Countries	7,337	1,151,306
	34,350	$6,446,562
Shorts		
United States	35,467	$1,817,486
United Kingdom	1,576	84,171
South America	559	36,609
Central America & Mexico	156	7,203
European Countries	2,229	140,555
Other Countries	3,461	291,334
	43,448	$2,377,358
Grand Total—		
Unmanufactured Asbestos:	77,810	$8,836,225
Manufactured Asbestos Goods:		
Brake Linings Facings		$ 120,947
Asbestos-Cement Building Materials		4,202
Asbestos-Cement Products, Other		18,575
		$ 143,724

Tilo Roofing Company, Inc. and **Reynolds Metals Company** effected their merger with the start of business on August 1st, 1961. The name has been changed to **Tilo Company, Inc.**

WOVEN AND NEEDLED

ASBESTOS CEMENT

SHINGLE, TUBE AND

CORRUGATING FELTS

NORDISKAFILT

NORDISKA MASKINFILT AKTIEBOLAGET
HALMSTAD • SWEDEN

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

Joseph N. Kuzmick, Vice President & Director, Manhattan Rubber Division, Raybestos-Manhattan, Inc., Passaic, New Jersey, October 15.

Harry P. Hansell, Vice President & General Manager, Dutton Asbestos & Supply Company, San Francisco, California, October 16.

David E. Kelley, President, Kelley Asbestos Products Company, Kansas City, Missouri, October 16.

William F. Reed, President & Treasurer, Asbestos Distributors, Inc., Port Chester, New York, October 17.

Walter A. RuKeyser, Consulting Engineer, Montreal, P. Q., Canada, October 19.

E. J. Buczkowski, Vice President—Production, Keasbey & Mattison Company, Ambler, Pennsylvania, October 22.

Francis E. Dutcher, General Manager of the Building Products Division & Vice President, Johns-Manville Corporation, New York City, October 24.

Harry E. Humphreys, Chairman & Chief Executive Officer, United States Rubber Company, New York City, October 24.

H. C. Morton, Vice President—Friction Division, The Russell Manufacturing Company, Middletown, Connecticut, October 28.

Harry A. Dutton, Jr., President & Treasurer, Dutton Asbestos & Supply Company, San Francisco, California, October 29.

Antoinette Ozurovich, Secretary-Treasurer, Atlantic Asbestos Corporation, New York City, November 3.

Ernest S. Sprinkmann, President, Sprinkmann Sons Corporation, Milwaukee, Wisconsin, November 3.

Kozaburo Nozawa, President, Nozawa Asbestos Industrial Company Limited, Kobe, Japan, November 4.

Charles B. Purcell, President, Western Asbestos Company, San Francisco, California, November 4.

Howard W. Allen, Vice President, Johns-Manville Corporation, New York City, November 5.

William P. Barry, Assistant Secretary, Smith & Kanzler Corporation, Linden, New Jersey, November 5.

Dirk Salomons, Director, Asbestcementindustrie "Asbestona" N. V. Amersfoort, Holland, November 5.

Charles W. Hanslip, General Manager, Standco Brake Lining Company, Los Angeles, California, November 8.

Willis G. Sullivan, Secretary, Asbestos & Magnesia Materials Company, Chicago, Illinois, November 12.

Karl V. Lindell, Chairman of the Board, Canadian Johns-Manville Company Limited, Asbestos, Canada, November 14.

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

George A. Rentschler, Chairman of Executive Committee, The Philip Carey Manufacturing Company, Lockland, Cincinnati, Ohio, November 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

Ford Wholesale Company, Inc., of Pasadena, California, one of the largest roofing wholesale companies on the West Coast, is handling Fibreboard Paper Products Corporation's Pabco Roofing and Asbestos-Cement products exclusively in Southern California, effective September 1st, 1961.

William L. Thomas, President of Ford Wholesale Company and Ralph E. Heim, General Manager, Pabco Roofing, met with officials and sales representatives of both companies at Redondo Beach early in August to complete operational plans for the new project.

Ford Wholesale is nearing completion of its new headquarters comprising a warehouse and office building in El Monte that will improve service to their customers.

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue **E. Rutherford, N. J.**

RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		September 1961		
	Par	Low	High	Last
Advocate Mines, Ltd.	1	$4.70	$6.30	$6.10
American Brake Shoe	np	46⅛	50	46½
Armstrong Cork (Com)	1	67¼	72¾	72
Armstrong Cork (Pfd)	np	79½	82	81¾
Asbestos Corporation	np	31	33	32½
Philip Carey	10	29	31⅜	30¼
Cassiar Asbestos Corp.	np	12¾	13½	12¾
Celotex (Com)	1	26¾	28¾	27
Celotex (Pfd)	20	18	20	18¾
Certain-Teed	1	54⅞	66¼	66¼
Fibreboard	np	28½	31¾	29⅛
Flintkote (Com)	5	25⅛	27¾	25⅝
Flintkote (Pfd)	np	84	85½	85
Johns-Manville	5	63	68⅜	64¾
National Gypsum (Com)	1	59¾	64⅛	60⅝
National Gypsum (Pfd)	np	90	93	92½
Porter, H. K.	100	96	97	97
Raybestos-Manhattan	np	68½	75¼	70⅜
Ruberoid	1	38¾	42¼	39½
Unarco	5	7⅜	8¼	7½
United Asbestos	1	$5.80	$7.15	$5.90
U. S. Gypsum (Com)	4	95	99	98¾
U. S. Gypsum (Pfd)	100	153¼	159	159
U. S. Rubber (Com)	5	56⅝	61½	57¾
U. S. Rubber (Pfd)	100	156	158¾	158½

Portland Cement Association held a meeting at its headquarters in New York City on August 31st, 1961, for the purpose of exploring ways and means by which the Portland Cement Association and the **Asbestos-Cement Products Association** could cooperate in furthering the promotion of Asbestos-Cement Products.

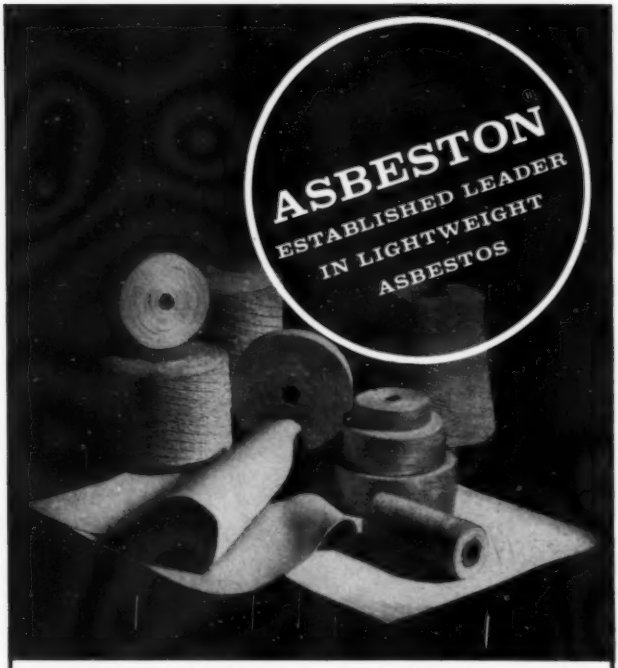
ASBESTOS FIBRES

ASBESTOS WASTE

Frank G. Ruggles Co. Inc.

26 BROADWAY

NEW YORK 4, NEW YORK



When you need asbestos in any textile form, specify ASBESTON . . . for twenty years the leader in lightweight asbestos textiles.

And when unusual or special high-temperature conditions must be met, call on our experienced technicians to adapt the unique ASBESTON spinning process to the special yarns or fabrics you need.

For detailed information on how ASBESTON yarns, fabrics or tapes can serve you best, write us today.

Textile Division

US RUBBER **United States Rubber**

Rockefeller Center, New York 20, N.Y.

CURRENT RANGE OF PRICE

As of October 10, 1961

ARIZONA—	Per Ton of 2,000 lbs., f.o.b. Globe, Arizona	
No. 1 Crude (soft)	$1,650.00 to	$1,800.00
No. 2 Crude (soft)	800.00 to	1,000.00
Group No. 3 (Filtering & Spinning)	375.00 to	450.00
Group No. 4 (Plastic & Filtering)	225.00 to	250.00
Group No. 5 (Plastic & Filtering)	190.00 to	225.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

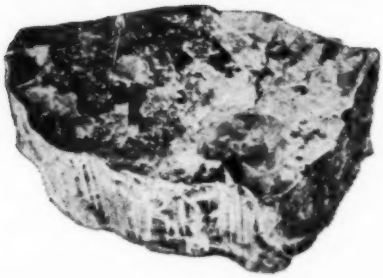
CANADA—	Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency	
Group No. 1 (Crude No. 1)	$1,410.00 to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00 to	875.00
Group No. 3 (Spinning Fibre)	350.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster)	..	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

VERMONT—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville, Vermont		
Group No. 3 (Spinning & Filtering)	$ 345.00 to	$ 402.00
Group No. 4 (Shingle Fibre)	181.00 to	320.00
Group No. 5 (Paper Fibre)	120.00 to	142.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	75.00

R. H. Dent, Deputy Chairman and Managing Director of The Cape Asbestos Company Limited, has been elected Chairman of MARINITE LIMITED, manufacturers of "Marinite" non-combustible asbestos sheet; CAPE BUILDING PRODUCTS LIMITED, manufacturers of "Asbestolux" asbestos insulation board and Uxbridge Flint Bricks; and, CAPE INSULATION AND ASBESTOS PRODUCTS LIMITED, manufacturers of "Caposite" amosite asbestos, "Rocksil" rock wool and "Caposil 1400" calcium silicate, thermal insulation materials. Also, Mr. Dent has resigned the position of Chairman of Cape's subsidiary KISMET LIMITED, manufacturers of garage and other industrial equipment, which he has occupied for the last four years.

Sir Victor Shepheard KCB has joined the Board of MARINITE LIMITED. He is Director of Research, British Shipbuilding Research Association and a Director of William Denny and Brothers Limited, and until 1958 was Director of Naval Construction at the Admiralty.

Built on a rock



Crude Asbestos is the rock on which B.B.A. is built. We use it to make everything for which asbestos is best, from yarns and cloths to all types of jointings and packings —and the world famous MINTEX friction materials and MINTEX Industrial Plastics. Our factory leads in production; our Research Laboratories keep us at the head of development; Asbestos is our subject.

B.B.A

British Belting & Asbestos Ltd

CLECKHEATON YORKSHIRE ENGLAND

William P. Archer has been appointed Mine Project Manager in the Asbestos Fibre Division of CANADIAN JOHNS-MANVILLE COMPANY LIMITED. Mr. Archer entered Canadian J-M in 1951 as Shift Foreman in the underground mine. In 1953, he was appointed General Foreman and in 1955 he became Assistant Underground Superintendent. In 1957, his services were required for a period of 2 years with Rhodesian Asbestos Company. Upon his return from Africa, he resumed his position as Assistant Underground Superintendent for a brief period, after which, he became Assistant Production Engineer with Canadian J-M's Asbestos Fibre Division.

Stuart K. Brigham has been appointed as Mine Project Manager in the Asbestos Fibre Division of CANADIAN JOHNS-MANVILLE COMPANY LIMITED. He joined Canadian J-M in 1946 as Staff Engineer at the Toronto, Canada, Plant. In 1946, he was transferred from Toronto to Jeffrey Mine as Assistant Plant Engineer and became Plant Engineer in 1951.

Gerard-A. Piche has been appointed Assistant Production Engineer for CANADIAN JOHNS-MANVILLE COMPANY LIMITED. He first started to work for C.J-M during summer vacations as a student. In 1946, after graduating in Mining Engineering from Laval University, he immediately accepted the position of Assistant Mining Engineer at Jeffrey Mine. He successively became Mining Engineer and Senior Mining Engineer and was appointed Supervising Engineer Mining in 1959.

Canadian Johns-Manville Company Limited has announced that a contract for the development of a portion of the Baie Verte, Newfoundland, asbestos project has been awarded and work is to get underway immediately.

The contract covers construction of a dock to berth ocean going vessels and coastal shipping, a fibre warehouse providing storage for 20,000 tons of asbestos fibre, and a mechanical services building. A mill and other facilities will be contracted for in 1962.

Some $20 million is to be spent at Baie Verte before the start of production scheduled for mid-1963. About 200 men will be employed in the mine at the outset.

Philip J. Hughes has been appointed to the position of District Sales Manager at Los Angeles, California, for KEASBEY & MATTISON COMPANY, manufacturers of asbestos-cement pipe and asbestos products. The announcement was made by J. R. Reichel, General Manager of the Pipe Sales Division of K&M at Ambler, Pennsylvania.

R/M Thermal Insulating Tapes, made to Military Spec. MIL-1-15349A, consist of a tubular woven asbestos sheath in A.S.T.M. Grade AA and a stuffer of fiber glass slivers. The stuffer or insulating medium provides a weight saving of 6-19% in Type I and 20-36% in Type II, compared with the same sheath containing Amosite asbestos stuffer. R/M supplies these tapes in the three sizes covered by MIL-1-15349A and in eight additional sizes. Generally specified for insulating small piping aboard ship, they are also used in industry wherever vibration or physical abuse would damage or destroy standard sectional insulating materials. Write for samples and product data.

R/M

ASBESTOS TEXTILE DIVISION
RAYBESTOS-MANHATTAN, INC.
Manheim, Pa.

SPECIALISTS IN ASBESTOS, RUBBER, SINTERED METAL, ENGINEERED PLASTICS

ASBESTOS — TEXTILES

H. K. PORTER COMPANY, INC.

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